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OBSERVATIONS OF THE TOTAL ECLIPSE OF THE  
MOON, OCTOBER 16, 1902.

The total lunar eclipse of October 16, 1902, was observed at the Students' Observatory of the University of California, by the students in Practical Astronomy. Some of these have had but little experience in observational work, and their results have consequently been given smaller weights. The weights have been assigned in a somewhat arbitrary manner, from consideration of experience of the observers, instruments used, etc. The atmospheric conditions were good. The observations and results are contained in the following tabulation.

SIDNEY D. TOWNLEY.

TOTAL ECLIPSE OF MOON, 1902, OCTOBER 16.

Phase.	P. S. T.	O - C.	p.	Instrument.	Observer.	Remarks.
Enters shadow	8 <sup>b</sup>					
	16.8 <sup>m</sup>	- 0.5 <sup>m</sup>	2	Finder of 6"	J. D. MADDRILL	Definition poor.
	17.7	+ 0.4	2	Surveyor's Transit	GEO. DICKIE	
	16.8	- 0.5	2	Alt-azimuth	M. VAN WORMER	
	18.0	+ 0.7	2	5" Refractor	Mrs. E. HUBBARD	
	18.0	+ 0.7	1	Eye	Mrs. J. KOETHEN	
	15.5	- 1.8	0	Field-glasses	Miss E. HADLEY	
	16.8	- 0.5	3	6"-Refractor	A. F. GILLIHAN	
		- 0.05				
Weighted mean	9 <sup>b</sup>					
	Totality begins	+ 1.5	2	Finder of 6"	J. D. MADDRILL	Time probably taken from Mrs. HUBBARD's observations.
		+ 0.8	2	Surveyor's Transit	GEO. DICKIE	
	19.9	+ 0.9	2	Alt-azimuth	M. VAN WORMER	
		+ 1.5	1	Opera-glasses	Mrs. E. HUBBARD	
	20.5	+ 1.5	1	Eye	Mrs. J. KOETHEN	
		+ 1.8	2	3"-Refractor	Miss G. TODD	
	22.1	+ 3.1	0	Field-glasses	Miss E. HADLEY	
		+ 0.3	3	6"-Refractor	A. F. GILLIHAN	
	19.3	+ 2.0	2	Finder of 3"	S. D. TOWNLEY	
		+ 1.3	1	Eye	CHAS. PETIT	
	20.6	+ 1.6	1	Eye	E. E. EVERETT	
		+ 1.22				
Weighted mean	10 <sup>b</sup>					
	Totality ends	+ 0.5	2	Finder of 6"	J. D. MADDRILL	Watch comparison uncertain.
		+ 0.2	3	6"-Refractor	A. F. GILLIHAN	
		+ 0.8	2	Finder of 5"	S. D. TOWNLEY	
Weighted mean	+ 0.46			*		
	Leaves shadow	- 0.3	2	Finder of 6"	J. D. MADDRILL	
		- 0.4	3	6"-Refractor	A. F. GILLIHAN	
		+ 0.2	2	Finder of 3"	S. D. TOWNLEY	
Weighted mean	- 0.20					

Uncertain, — for 2 min. preceding light was coming fast,—totality certainly over by this time.